CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002		TDP ____ TM ____ OTHER ____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Electrical Distribution Sys, Ft Polk	DACA87-01-R-0023	

Item 1

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P001	Safety and Health Plan		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P001	C.5., H.5	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
			30 day after award	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

Item 2

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P002	Quality Control and Assurance		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P002	C.6	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
			30 day after award	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

Item 3

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P003	System Inventory and Valuation		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P003	J.1.1., J.1.1.2	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
			TBD	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

Item 4

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P004	System Expansion Upgrade and Renewal Plan		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P004	J.1.1., J.1.2.1	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
			TBD	
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Timothy E. Brown, Mechanical Engineer	11 Mar 03		5/16/03

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002		TDP _____ TM _____ OTHER _____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Electrical Distribution Sys, Ft Polk	DACA87-01-R-0023	

Block 1

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P005	Operation and Maintenance Plan		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P005	J.1.1., J.1.2.2	

7. DD 250 REQ	8. APP CODE	9. DIST STATEMENT REQUIRED	10. FREQUENCY	11. AS OF DATE	12. DATE OF FIRST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION
					TBD	TBD

14. DISTRIBUTION		b. COPIES	
a. ADDRESSEE	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

Block 2

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P006	Cost Proposals		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P006	J.1.3	

7. DD 250 REQ	8. APP CODE	9. DIST STATEMENT REQUIRED	10. FREQUENCY	11. AS OF DATE	12. DATE OF FIRST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION
					TBD	TBD

14. DISTRIBUTION		b. COPIES	
a. ADDRESSEE	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

Block 3

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P007	Annual Budget and Expenditure		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P007	H.5	

7. DD 250 REQ	8. APP CODE	9. DIST STATEMENT REQUIRED	10. FREQUENCY	11. AS OF DATE	12. DATE OF FIRST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION
					TBD	TBD

14. DISTRIBUTION		b. COPIES	
a. ADDRESSEE	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

Block 4

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
P008	Emergency Operations Plan		III	0

4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P008	H.5, J.2.8, J.3.9, J.4.26	

7. DD 250 REQ	8. APP CODE	9. DIST STATEMENT REQUIRED	10. FREQUENCY	11. AS OF DATE	12. DATE OF FIRST SUBMISSION	13. DATE OF SUBSEQUENT SUBMISSION
					TBD	TBD

14. DISTRIBUTION		b. COPIES	
a. ADDRESSEE	Draft	Final Reg	Final Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Timothy E. Brown, Mechanical Engineer	11 March 03		5/16/03

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002		TDP _____ TM _____ OTHER _____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Electrical Distribution Sys, Ft Polk	DACA87-01-R-0023	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P009	Periodic System Studies	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P009	J.1.1, J,1,2,3	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD / TBD	See REMARKS		1	6
				15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP: III
18. ESTIMATED TOTAL PRICE: 0

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P010	Request for Action	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P010		

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD / TBD	See REMARKS		1	6
				15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP: III
18. ESTIMATED TOTAL PRICE: 0

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P011	Operations Facility Requirements Plan	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P011	J.1.1, J.1.2.4	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD / TBD	See REMARKS		1	6
				15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP: III
18. ESTIMATED TOTAL PRICE: 0

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P012	Initial Systems Studies	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P012	J.1.1, J.1.1.2	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD / TBD	See REMARKS		1	6
				15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP: III
18. ESTIMATED TOTAL PRICE: 0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Timothy E. Brown, Mechanical Engineer	11 March 03		5/16/03

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002		TDP _____ TM _____ OTHER _____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Electrical Distribution Sys, Ft Polk	DACA87-01-R-0023	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
P013	Work Plan		III

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
P013	J.1.2		0

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD	See REMARKS		1	6
			TBD	15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
P014	Staffing Plan		III

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
P014	J.1.1, J.1.2.5		0

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD	See REMARKS		1	6
			TBD	15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
P015	Performance, Measurement, and Verification Plan		III

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
P015	C.7, J.1.1, J.1.2.6		0

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD	See REMARKS		1	6
			TBD	15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE	17. PRICE GROUP
P016	Enviormental Baseline Study		III

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE	18. ESTIMATED TOTAL PRICE
P016	C.28		0

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION	b. COPIES		
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	a. ADDRESSEE	Draft	Final Reg	Final Repro
			TBD	See REMARKS		1	6
			TBD	15. TOTAL →		1	6

16. REMARKS: Address same as Block 7 of Standard Form (SF) 30

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Timothy E. Brown, Mechanical Engineer	11 March 03		5/16/03

CONTRACT DATA REQUIREMENTS LIST

Form Approved
OMB No. 0704-0188

A. CONTRACT LINE ITEM NO.	B. EXHIBIT	C. CATEGORY:
0002		TDP ____ TM ____ OTHER ____

D. SYSTEM/ITEM	E. CONTRACT/PR NO.	F. CONTRACTOR
Electrical Distribution Sys, Ft Polk	DACA87-01-R-0023	

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P017	Evioromental Assesment	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P017	C.28	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
III	0

---

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P018	Enviromental Impact Statement	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P018	C.28	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
III	0

---

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE
P019	Mapping	

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE
P019	J.1.1, J.1.1.3	

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	
			TBD	
			TBD	

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
III	0

---

1. DATA ITEM NO.	2. TITLE OF DATA ITEM	3. SUBTITLE

4. AUTHORITY *(Data Acquisition Document No.)*	5. CONTRACT REFERENCE	6. REQUIRING OFFICE

7. DD 250 REQ	9. DIST STATEMENT REQUIRED	10. FREQUENCY	12. DATE OF FIRST SUBMISSION	14. DISTRIBUTION
8. APP CODE		11. AS OF DATE	13. DATE OF SUBSEQUENT SUBMISSION	

a. ADDRESSEE	b. COPIES		
	Draft	Final	
		Reg	Repro
See REMARKS		1	6
15. TOTAL →		1	6

16. REMARKS

Address same as Block 7 of Standard Form (SF) 30

17. PRICE GROUP	18. ESTIMATED TOTAL PRICE
III	0

G. PREPARED BY	H. DATE	I. APPROVED BY	J. DATE
Timothy E. Brown, Mechanical Engineer	11 March 03		5/16/03

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
SAFETY AND HEALTH PLAN	P001 - Electric **(Amendment 0012)**

3. DESCRIPTION / PURPOSE

The Contractor's Safety and Health Plan indicates the requirements required to provide a **site specific** Safety and Health Plan for the Contractor.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for a **site specific** Safety and Health Plan (SHP) required under the contract.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

The Safety and Health Plan (SHP) shall contain the following:

- Intention and method of compliance with Federal, state and local safety and health requirements;
- Accident prevention **plan for each task order issued under the Contract**;
- Personnel protective equipment;
- Personnel medical surveillance;
- Personnel responsible for safety and health;
- Prepare and submit report, maintain recordkeeping;
- Other (as required to meet the requirements of the contract).

All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

The Contractor shall develop, implement, and maintain a Safety and Health Plan for this Contract that safeguards the lives and health of employees and other persons, prevents damage to property, materials, supplies, and equipment, and prevents work interruptions. The Safety and Health Plan shall be submitted to the Contracting Officer for approval sixty days prior to system conveyance. The plan shall comply with all applicable federal, state and local health and safety requirements (e.g., the Occupational Safety and Health Administration (OSHA) requirements (29 CFR 1910 and 1926)), and be prepared in accordance with applicable provisions of the U.S. Army Corps of Engineers Safety and Health Requirements Manual, EM 385-1-1, and the applicable installation safety and health requirements. The plan shall address those elements that are specific to this site and has potential for negative effects on the safety and health of workers and other personnel on site. The key elements of the plan shall include: Intention and method of compliance with Federal, state and local safety and health requirements; an Accident Prevention Program; listing and application of personnel protective equipment; personnel medical surveillance; listing of personnel responsible for safety and health; standard reports, logs, and record keeping; noise control; standard operating procedures and work practices; and the operational and health and safety qualifications and responsibilities of delegated safety and health officer. EM 385-1-1 is available at http://www.hnd.usace.army.mil/techinfo. AR 385-40 is available at:
http://www.usapa.army.mil/pdffiles/r385_40.pdf

The Contractor shall comply with accident reporting requirements as outlined in the U.S. Army Regulation No. 385-40. All accident reports shall be submitted to the Contracting Officer.

The following publications/standards are recommended for Contractor reference files. This is not intended as an all-encompassing list.

OSHA 1926 Construction
OSHA 1910 Industrial
ANSI Standards

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
QUALITY CONTROL AND ASSURANCE PLAN	P002 - Electric **(Amendment 0012)**

3. DESCRIPTION / PURPOSE

The Contractor's Quality Control and Assurance Plan indicates the requirements required in a contractors quality program for the contract.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Quality Control and Assurance Plan required under the contract.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

The contractor shall be responsible for Quality Assurance and Quality Control of all services and construction performed under this contract.

The contractor shall implement and maintain a documented quality assurance program. The program shall establish work control policies and practices needed to ensure the provision of quality services and construction. The program shall assign quality control responsibilities, identify key quality control interfaces, and verify quality control practices and tools are sufficient to ensure delivery of quality construction and services.

The Contractor shall implement and maintain a documented quality control system.. The system shall identify and result in correction of potential and actual quality problem areas throughout the entire scope of this contract. Three copies of the Contractor's Quality Control Plan (QCP) shall be provided to the Contracting Officer five working days prior to contract performance start date. The QCP shall be implemented on the first day of contract performance. The Government will make final review and acceptance of the QCP and any subsequent changes. The Contractor shall provide three updated/revised copies to the Contracting Officer five working days prior to any planned change, subject to Government acceptance. The Contractor's quality control system shall:

- Be structured to assure the individual responsible for Quality Control (QC) is independent from any other parts of the Contractor's organization.
- Assure the Quality Control Manager has direct accountability to the Contractor's top management.
- Contain procedures of written and verbal communication with the Government regarding performance of the contract.
- Contain procedures for making corrective action without dependence upon Government direction.
- Contain, as a minimum, specific surveillance procedures for each contract service identified in this PWS. These surveillance procedures shall identify who will perform the surveillance, the frequency, the method, listing of items under surveillance, and corrective actions that will be taken to correct Contractor identified deficiencies.
- Include a customer complaint system for correction of validated complaints and to inform the customer of the corrections made. At a minimum, the customer complaint system shall contain procedures for the customer to file complaints with the Contractor, forms to be utilized by the customers, procedures for investigation of the complaint, and feedback to the customer and the Government on the results and actions taken on the complaint.
- Maintain records of all Contractor quality control checks and corrective actions. These files shall be maintained by the Contractor throughout the term of this contract and shall be made available to the Contracting Officer or designated representative during the term of this contract. The Contractor shall retain his quality control files for not less than one year after completion or termination of contract.

All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
System Inventory and Valuation	P003 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires the contractor to prepare and maintain a system inventory database. The system database will define the quantity, types, and age of components that comprise the system. The system book value will be determined based on the inventory and accepted valuation techniques.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the System and Valuation. This DID shall relate and cross reference with the maps developed in accordance with DID P019, Mapping and the Initial System Studies developed in accordance with DID P012. The inventory shall relate to the Operations, Maintenance, and Repair Plan that shall use the component unique identifications, locations, and other references.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1. Performance.

A. The inventory shall be an electronic database that depicts the following information. The inventory shall include a list of each major plant component, location of the component , and other pertaining information as listed below. Line data base inventory shall be in the form of totals for each size and/or type compiled by age with a general description of each line segments location. The inventory and associated maps shall depict component unique identifiers for each component so that pertinent data can be accessed by reference either from the map to the database or vice verse. The inventory shall document the location of plant system components by noting the building or other facility in which it is located or serves and shall reference the map number on which the component is shown.

B. The contractor will be responsible for locating and inventorying utility features that are external to buildings. The contractor will be provided with a set of utility base drawings, MicroStation design files, and aerial photos (where available). (All available drawings were provided with the solicitation in Section J. These drawings should be verified for accuracy and completeness by the offeror prior to preparing a bid for Task Order "System Characterization and Workplan"). Much of the necessary information necessary will not be on the drawings provided. The contractor shall research the files located at the installation, at the serving Corps of Engineers District office, and as may be available from contractors that performed the work and shall interview installation utility operations personnel to gather the data necessary to complete the database. Size, material, date installed and other related data should be compiled from physical inspection of all above ground components, as-built drawings, and interviews. It is not required for the contractor to go beyond a ground level inspection of the electrical system. No excavation is required to verify inventory data.

The following features shall be noted in the inventory database with its unique identifier (feature ID) assigned and noted on both the maps and in the database.

Overhead electrical system

- Poles

- Database Inventory shall contain:
  - Feature ID
  - Height/class
  - Pole assemblies attached, by type
  - Year of manufacture or date installed
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, etc

- Transformers

- Database Inventory shall contain:
  - Feature ID
  - Building location

- Capacities
- Connection (delta/wye)
- Primary & secondary voltages
- Map number on which it is located
- Condition (good, fair, poor)
- Notes related to deficiencies in installation, condition, operability, leakage, etc

- Pole mounted switches *(excluding transformer cutouts)*
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type (e.g. gang-operated, load-break, cutout, etc.)
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, etc

- Voltage regulators
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

- Overhead conductor
- Database inventory shall be a summation of feet of conductor sorted first by date of installation, followed by the number of conductors in the circuit, the material type, then size.

Aerial services
- Database inventory shall be a summation of feet of conductor sorted first by the number of conductors in the circuit, followed by the material type, then size.

Capacitors,
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

Streetlights
- Database Inventory shall contain:
  - Feature ID
  - Map number on which it is located
  - Condition (ok, needs cleaning, broken parts, etc.)
  - Notes related to deficiencies in installation, condition, etc

Underground electrical system
Transformers
- Database Inventory shall contain:
  - Feature ID
  - Building location
  - Capacities
  - Connection
  - Primary & secondary voltages
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

- Pad mounted switchgear.
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

Electric Manholes (number & location)
- Database Inventory shall contain:
  - Feature ID
  - Map number on which it is located

Underground conductor (primary, neutral, secondary)
- Database inventory shall be a summation of feet of conductor sorted first by date of installation, followed by the number of conductors in the circuit, the material type, then size

Underground services (estimated or confirmed by as-built drawings).
- Database inventory shall be a summation of feet of conductor sorted first by the number of conductors in the circuit, followed by the material type, then size.

Electric duct bank (estimated or confirmed by as-built drawings).
- Database inventory shall be a summation of feet of duct bank sorted first by date of installation, followed by the number of conduit in the bank, by material type, by conduit size

Electrical Substations
- Transformers, ,
- Database Inventory shall contain:
  - Feature ID
  - Capacity
  - Connection
  - Date manufactured
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, etc

- Switchgear, type, manufacturer, ratings, protective devices.
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

- Voltage regulators.
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type (manufacturer)
  - Date manufactured
  - Map number on which it is located
  - Condition (good, fair, poor)
  - Notes related to deficiencies in installation, condition, operability, leakage, etc

- Bus.
- Database Inventory shall contain:
  - Feature ID
  - Size
  - Type
  - Map number on which it is located

- Condition (good, fair, poor)
- Notes related to deficiencies in installation, condition, operability, leakage, etc

C. The system book valuation shall correlate to the system inventory. It shall include an estimate of each plant unit's original installed cost, current replacement cost, the length of its useful life, the remaining years in its useful life, and the current accumulated depreciation (based on the straight-line depreciation method). Sources for cost information shall be documented (e.g. Means Data).

10.2 Presentation Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The system inventory and valuation shall be submitted in hard copy (on 8 ½" x 11" sheets) and full size drawing sheets with both also submitted in electronic form.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
SYSTEM EXPANSION, UPGRADE, AND RENEWAL PLAN	P004 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

Description of Contractor's 5-year plan for system expansion, upgrade, and renewal to include a report of the preceding years associated activities.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the 5-year plan for system expansion, upgrade, and renewal to include a report of the preceding years associated activities. This DID relates to the 5 year budget and expenditure report submitted in accordance with DID #P007.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1. In the intitial proposal and as a product of Task Order "System Characterization and Work Plan, the contractor shall provide the Government with a 50-year capital improvement (expansion, upgrade, and renewal) plan. Initially, in response to the request for proposal, the offeror should describe, from its perspective, the current condition of the system. The offeror should describe its criteria for upgrade and/or replacement. The offeror should state what will be required to upgrade the system to industry standards and state and Federal codes. The offeror should state whether partial or total replacement will be required. If the offeror's standards supercede state and Federal codes, the offeror should describe in as much detail as possible the extent of system replacement and upgrade it believes will be required to bring the system up to the offeror's standards. In addition to immediate refurbishment proposed, the offeror should provide a concept 5-year capital improvement plan to provide for renewal of the system. Provide as much detail as possible to indicate the actual work to be performed and a schedule for performance. List specific projects to be executed and, if possible, list the plant units and number of units that it expects to be replaced or refurbished. The offeror should document any assumptions it had to make concerning system condition. The offeror should also include the time frame for system upgrades/replacements for effective definition of the offeror's plans. (Note: It is expected that assumptions will be verified during the execution of task order "System Characterization and Workplan")

10.2 Annually, this plan shall be a portion of the basis for the contractor's 5-year budget submitted in accordance with P007. Work shall be identified by fiscal year. The plan shall reference reports generated in accordance with P012, Initial System Studies, P009 Periodic System Studies, or other reports identifying the need and justification. The plan shall include a 5-year capital improvement plan (four fiscal years beyond the upcoming fiscal year) that identifies major system facility expansions, replacements, relocations, or abandonment as may be needed to conform each system to the Contractor's safety and operational standards, or to accommodate Government-forecasted changes in utility usage requirements. The 5-year capital improvement plan shall include a description, statement of need, estimated installed cost, project schedule and coordination actions for each capital improvement item or class of improvements. The 5-year capital improvement plan will be revised each year and budget costs shall be revised as well.

10.3 The contractor shall report on its expansion, upgrade, and renewal efforts for the past year. Particularly, the report should identify what work was and was not accomplished as it relates to the plan.

10.4 The Government may request clarification or modification of the plan and will do so within a thirty (30) calendar day period from its submittal. The Contractor shall respond to the Government's comments within a thirty (30) calendar day period from the date it receives the Government's comments. The Contractor will not be required to modify its plan to incorporate Government comments if, in the Contractor's discretion, such changes might adversely affect health and safety standards; or if such changes are not consistent with the Contractor's operating standards and/or procedures for service to customer classes with service requirements substantially similar to requirements at any of the applicable installations. The Government review will be for the purpose of verifying that service is rendered in accordance with the terms of the contract and that the Contractor's proposed expenditures are consistent with the Government's budget requirements, as well as for necessity and reasonability of costs. The Government, may at this time, negotiate with the Contractor for items that may affect the Government's cost of service.

10.5 The plan is due to the COR on 1 February of each FY. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The plan needs to be finalized, to include review and subsequent discussion or negation, by 1 May of each FY.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
OPERATION and MAINTENANCE PLAN (OMP)	P005 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Contractor's Operation and Maintenance Plan (OMP) represents the requirements for system operation and maintenance under Task Order "Utiltiy Services". The Contractor shall develop an integrated OMP that incorporates the individual elements listed below and, as a minimum, includes/identifies the service/work elements listed below. Operations are defined as performance of the day-to-day tasks required in the provision of consistent service or flow of commodity to each service location. Maintenance is defined as both preventive and corrective maintenance necessary to maintain each system component in serviceable condition.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the OMP for the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS. All information developed for the tasks described below shall be submitted to the Government.

10.1 OMP Integrated Schedule: The contractor shall develop and maintain an integrated schedule from the schedules delineated below. This schedule will be utilized in conjunction with other DIDs to devise an overall schedule.

10.2 Operations Plan:

Utilizing the System Inventory developed in DID #P003, the contractor shall develop and maintain a master equipment list (MEL) for the components of the system that require: periodic manual operation; performance of equipment surveillance and monitoring; determination of equipment operational status; performance of measurements and tests; and calibration or adjustment as required for proper operation. From the MEL, manufacturers' literature, and system drawings, the contractor shall prepare written procedures and a schedule for accomplishment of the operations tasks. Procedural documents shall be written at the journeyman craftsman/certified operator level. They shall be numbered and organized such that they are either standalone or to be performed with other procedures for efficient scheduling or required sequence. The contractor shall incorporate a list of tools, instruments, and materials necessary to perform the required tasks in each procedure. The procedures shall reference the Governing Documents to the extent possible/necessary to ensure proper adherence to required/mandated codes and standards, and environmental regulations.

The contractor shall develop and maintain an integrated task list and schedule for system operation.

Governing Documents: The contractor shall develop and maintain a list of codes, standards, and/or regulations applicable to the operations procedures, citing titles and effective dates.

10.3 Maintenance Plan:

10.3.1 Preventive Maintenance (PM) Effort: Preventive maintenance is defined as periodic work required to prevent malfunction or premature failure of a system component or plant unit. It may also include periodic replacement of parts or minor rework/overhauls of the basic plant unit. Utilizing the System Inventory developed in DID #P003, the contractor shall develop and maintain a master equipment list (MEL) for the components of the system that require periodic PM. From the MEL, manufacturers' literature, and system drawings, the contractor shall prepare written procedures and a schedule for accomplishment of the PM tasks. PM documents shall be written at the journeyman craftsman level. They shall be numbered and organized such that they are either standalone or to be performed with other procedures for efficient scheduling or required sequence. The contractor shall incorporate a list of tools, instruments, and materials necessary to perform the required tasks in each procedure. The procedures shall reference the Governing Documents to the extent possible/necessary to ensure proper adherence to required/mandated codes and standards, and environmental regulations.

The contractor shall develop and maintain an integrated task list and schedule for system PM.

Governing Documents: The contractor shall develop and maintain a list of codes, standards, and/or regulations applicable to the operations procedures, citing titles and effective dates.

10.3.2 Corrective Maintenance/Repair (CM): Corrective maintenance is defined as periodic work required to correct a malfunction

or replace a failed system component or plant unit. It may also include replacement of failed parts or minor rework/overhauls of a unit of plant equipment to restore it to operating condition. Utilizing the System Inventory developed in DID #P003 (for equipment quantities and age), industry statistical experience, and industry component longevity data, the contractor shall develop and maintain predictive damage and premature failure rate models for the components of the system. From the predictive models, manufacturers' literature, and system drawings, the contractor shall prepare procedural documents and staffing requirements for accomplishment of the CM tasks. CM documents shall be written at the journeyman craftsman level. They shall be numbered and organized such that they are either standalone or to be performed with other procedures for required sequence. The contractor shall incorporate a list of tools, instruments, and materials necessary to perform the required tasks in each procedure. The procedures shall reference the Governing Documents to the extent possible/necessary to ensure proper adherence to required/mandated codes and standards, and environmental regulations.

The contractor shall develop a predictive schedule for system CM (so that it can be integrated in the overall OMP schedule).

Governing Documents: The contractor shall develop and maintain a list of codes, standards, and/or regulations applicable to the operations procedures, citing titles and effective dates.

10.4 Submittals:

Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of report for this Data Item Description (DID) in both hard copy and electronic digital format. The products resulting from this DID shall be submitted in one volume. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets (except that schedules may be provided on fold-out 11" x 17" sheets), with an index and separate sections for the following:

OMP Integrated Schedule;
Operations Plan Key Information – MEL, written procedures, schedule, staffing determination, list of tools, instruments, and materials, Governing Documents List.
Preventive Maintenance Plan Key Information – MEL, written procedures, schedule, staffing determination, list of tools, instruments, and materials, Governing Documents List.
Corrective Maintenance Plan Key Information – MEL, written procedures, schedule, staffing determination, list of tools, instruments, and materials, Governing Documents List.

10.5The plan shall include a section that briefly documents any expected changes over the next five years to the operations and maintenance plan that are due to recent or anticipated system expansions, upgrades, and/or renewals. Of particular interest are projected staffing changes and projected budget changes. These effects should be reflected in the annual updates to the Staffing Plan (DID #P014) and the Annual Budget and Expenditure Report (DID #P007).

10.6Additionally, the offeror should describe how major disaster recovery (major line breaks, widespread power line damage, other such emergencies) will be accomplished as it relates to who will be responsible and whether it will be performed with in-house staff or subcontracted personnel. Indicate the expected responses to extensive system damage and how quickly you can respond. Refer to Section J of the RFP for the Installation's restoration priorities.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
COST PROPOSALS	P006 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

Cost proposals shall include all costs (initial upgrade, annual renewal, operations and maintenance, overhead, profit, and other) for five years.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for cost proposals to the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

The Government foresees the need for an initial cost proposal (concept and final) for the work described in Task Order "Utility Services". Additionally, other cost proposals may be needed if the scope of work is modified or either party decides that costs need to be renegotiated at some point within the term of the contract.

10.1 The **initial** cost proposal shall be submitted under separate cover than the technical proposal. It shall reference the technical proposal as necessary to correlate costs with specific tasks. The Government requires all cost proposals (initial and other) to be sufficiently delineated and described so that the Government review and approval authority may easily understand the costs being proposed and the justification of those costs.

10.2 All cost proposals (**initial and other**) shall be broken down to include labor, equipment, and material for each major line item, or task. The mechanics of the entire cost structure shall be clear, including a detailed narrative. They shall contain the details of the methodology used to arrive at the proposed costs and the unit cost data used to formulate the cost proposal components.

10.3 Mark-ups and/or margins shall be clearly stated and a description provided to detail the costs included in each mark-up. The Government does not expect to pay directly for items normally considered overhead if overhead costs are sufficiently large to cover the cost of those items. Taxes and franchise fees, if applicable, shall flow straight through to the Government without any sort of mark-up designed to benefit or compensate the contractor. The contractor shall notify the Government within thirty (30) days of any changes in the rates for such taxes and fees.

10.4 If the proposal is determined to contain insufficient detail, the Contractor will be required to re-submit the proposal until it is sufficiently detailed. The Government will determine if sufficient detail is contained in the proposal.

10.5 If necessary, the cost proposal will reference the system inventory and valuation (Ref. DID #P003) for illustrating the recovery of capital investment. The cost proposal should reference the O&M plan (Ref. DID #P005) and correlate specific tasks and frequency of tasks with costs.

10.6 All assumptions shall be clearly stated.

10.7 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
ANNUAL BUDGET AND EXPENDITURE REPORT	P007 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The annual budget should include all costs (renewal/upgrade, O&M, overhead, profit, and other) to be incurred by the Government for the next fiscal year and the following four fiscal years. In addition, an expense report detailing the costs incurred over the past year should be included. The budget and expenditure report will assist in the Government's planning, budgeting, and negotiating efforts.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the annual budget to the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 A budget for all annual costs will be submitted in partial fulfillment of the annual service plan requirement (Task Order "Utility Services"). The annual budget should include all costs (renewal/upgrade, O&M, overhead, profit, and other) to be incurred by the Government for the next 5 fiscal years. In addition, an expense report detailing the costs incurred over the past year should be included. The Government requires costs to be sufficiently delineated and described so that the Government may easily understand the costs being budgeted and the justification of those costs.

10.2 The annual budget and expenditure report shall conform to the same format as the contractor's cost proposal (Ref. DID #P006). Cost structure and methodology shall be the same. Any deviations shall be noted.

10.3 The annual budget and expenditure report should reference the system inventory and valuation (Ref. DID #P003) for illustrating the recovery of capital investment. The cost proposal should reference the O&M plan (Ref. DID #P005) and correlate specific tasks and frequency of tasks with costs.

10.4 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
EMERGENCY OPERATIONS PLAN	P008 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

To provide an emergency operations plan.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the minimal requirements for the contractor's emergency operations plan. This plan shall be developed with the intention to document all aspects of the contractor's response to emergency conditions including, but not limited, to system failures due to acts of God, breakdown or demand spikes.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Based on the information contained in the Inventory Systems Assessment and the Operations and Maintenance Plan, an emergency operations plan shall be developed. This plan shall be submitted in a separate binder and shall include, but not be limited to, the following:

- Based on the Inventory Systems Assessment and the Operations and Maintenance Plan, identify all critical systems in addition to other types of emergencies that will be addressed.
- For the systems or areas defined above, provide a listing of all equipment and supplies that will be required to handle the emergency event. Include a listing of supplies and equipment that will be stored at or near the facility. If the equipment or supplies are not readily available, address how they will be procured.
- Provide an Emergency Resource Personnel Chart showing the number of persons available for use and their disciplines (clerical, engineering, customer service, etc).
- Identify the steps that will be taken in the event of an emergency, from discovery to containment. This should include, but not be limited to, how will emergency events be reported and to whom, identification of personnel who will be responding first as well as their responsibilities, proposed response times and all steps that will be taken to protect other property and/or personnel from being impacted. In the event of a major disaster, identify the service restoration priorities (which systems will be restored first, second, Third, etc.).
- Identify the corporate point of contact and their role in resolving emergencies, enacting preparedness training exercises and documenting how emergencies were handled. This should lead to development of reports assessing the readiness of their forces as well as identifying areas for improvement.
- Describe any obligations to any surrounding utility services and how these obligations will be satisfied.
- Any other information that may be pertinent to the success of the project.

10.2 The emergency operations plan shall be updated and revised annually and submitted to the Government to reflect any changes and/or improvements discovered during the previous year's implementation of work.

10.3 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Periodic System Studies	P009 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires that the contractor perform periodic system studies under Task Order "Utility Services" and develop mathematical models to define and characterize the critical system parameters. Under Task Order System Characterization and Work Plan the contractor will propose periodic studies to be performed. The contractor shall propose a plan that defines and describes each study, the frequency that each study will be performed, and provides a cost estimate for each. The study plan will be updated annually and may be revised each year to add, change, or delete studies. New studies and/or updated studies for the utility system shall be performed in accordance with the contractor's proposed frequency and at such times that accomplished or anticipated changes to the system are significant enough to affect system operation or performance (reliability/availability). The studies will provide a condition assessment to define the system condition in terms of age and functional state, and verify the current adequacy of the system in terms of capacity, flow, dynamic characteristics (voltage, etc), and system failure protection (faults, etc.). They will be further used to identify the requirements for system expansions/modifications including (upgrades) necessary to meet the Installation's utility services current needs and future projects.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Periodic System Studies for the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1. Presentation Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of the system study plan. The system study shall be submitted in both hard copy and electronic digital format. The information will be provided on 8 ½" x 11" sheets, with separate sections for an study index, descriptive narratives, schedule, and cost.

10.2 Submittal Schedule. Periodic studies performed every third year of the contract shall be submitted at the midpoint of the contract year. Periodic studies performed as a result of the accomplished or discussed above shall be submitted for review within two weeks of completion, but not less than 16 weeks prior to commencement of anticipated system changes. The Government will have a period of 30 calendar days to review and comment on the study documents. The Government and the contractor will meet within two weeks of submission of comments to discuss and resolve the comments (if required).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
REQUEST FOR ACTION	P010 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

To provide a detailed Request For Action (RFA).

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) describes the details required for a Request For Action.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Description of Requested Action:
The Request For Action (RFA) shall be developed for any work or additional services that are required which were not identified in current task orders. The RFA shall include a description and evaluation of the type work/service required. Contractor initiated RFAs shall include an estimated work plan cost. For Government initiated RFAs, the contractor shall provide all estimated costs.

10.2 Impact of Requested Action (where applicable).

a. Current Impact: The RFA should include a discussion of the situation, as it currently exists. Include maintenance trends (if applicable), health and safety concerns, etc., as required to accurately depict the current situation.

b. Long Term Impact: Include a discussion of the overall benefit(s) to the system/facility that are directly related to performing the proposed action. Include any energy savings, productivity enhancements, increased system efficiency, reduced maintenance requirements or any other benefit to be gained.

c. Result of Not Taking Action: Provide a discussion of the results of not taking the proposed action. Include any impacts to facility/system operation, predicted cost growth or any other pertinent issue that would be a definite negative result of not performing the proposed action.

10.3 Schedule for Taking Action
Request for Action shall include a schedule, which indicates all required activities to be performed by the contractor (owner) from the construction phase of the activity through completion of any required training and documentation. Schedule should include any required mobilization time as well as identifying any long lead time items, acquisition of permits, required outages, testing, and all inspections.

10.4 Cost of Taking Action:
The Contractor shall provide a detailed estimate of all costs associated with performing the work described therein. This estimate should include all labor, material, equipment, and any other elements required to complete the task. Any subcontracted work shall be included. Show all over-head, profit and other applicable fees on both owner and/or subcontracted work. Cost estimate shall be separated from the other elements of the RFA.

10.5 The Request For Action shall be evaluated by the Government for technical completeness and work plan cost reasonableness. Negotiations for the work plan cost will take place, if necessary. RFA's that are incomplete will be returned and re-submission will be required.

10.6 If the work is minor and/or it is possible to estimate the cost of the actual work without development of a work plan the contractor may request that the work plan be bypassed and an immediate action be taken to modify the contract or issue a new task order for execution of the work. In this case, the request for action will include all the data above to the level of detail necessary and the cost of the work broken down to a level that the Government can determine its reasonableness.

10.7 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
OPERATIONS FACILITY REQUIREMENTS PLAN	P011 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Contractor's Operations Facility Requirements Plan represents the physical space, buildings, and related facilities required to perform under Task Order "Utility Services".

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the contractors facilities .

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS.

10.1 Facilities The contractor shall describe the facilities required. Information to be provided includes: type and use of each facility; square footage; parking area; warehouse/storage areas; utilities required; paved access land space requirements; and cost of construction.

10.7 Submittals:

Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of report for this Data Item Description (DID) in both hard copy and electronic digital format. The products resulting from this DID shall be submitted in one volume. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets (except that schedules may be provided on fold-out 11" x 17" sheets), with an index and separate sections for the following:

10.8 Submittal Schedule. The Contractor shall complete and submit the OMP and documentation within 6 months following contract award. The Government will have a period of 30 calendar days to review and comment on the survey documents. The Government and the contractor will meet within two weeks of submission of comments to discuss and resolve the comments (if required).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE Initial System Studies	2. IDENTIFICATION NUMBER P012 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires that the contractor perform initial system studies/inspections and develop mathematical models if appropriate to define and characterize the systems condition and identify system deficiencies. The studies will provide a condition assessment to define the system condition in terms of age, functional state, and condition, and verify the current adequacy of the system in terms of capacity, flow, dynamic characteristics (voltage, etc), and system failure protection (faults, etc.). They will be further used to identify the requirements for a five year plan for system expansions/modifications including (upgrades) necessary to meet the Installation's utility services current needs and future projects.

4. APPROVAL DATE (YYMMDD) **24-Feb-03**	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Initial System Studies for the Government. This DID relates to the System Expansion, Upgrade, and Renewal Plan DID P004 and System Inventory, Condition Assessment, Deficiency Identification, and Valuation DID P003.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

The inventory database shall be used to document the deficiencies in narrative form of components system components (components being other than line sections such as poles, transformer, etc).

10.1. Performance. The studies will be based on information provided by the Government and gathered by the contractor and shall be performed to the level of detail proposed by the Contractor. All Government provided data should be field verified by the contractor. The contractor's proposal may contain additional study efforts beyond the minimums required herein. As a minimum the contractor shall perform the work included herein but shall also perform study effort proposed in the bid process and as necessary to assessment the system condition and identify deficiencies. The studies shall include a load flow and voltage drop study, a power factor study, and a protective device coordination study, as a minimum. Daily logs of all field activities shall be maintained and submitted as an appendix to the report.

The contractor shall visually inspect all above ground utility system components that are required to be included in the inventory and document the condition and operability. No excavation is required to verify inventory data although system condition assessment may require accessing manholes, hand holes, vaults, and risers to determine material types and condition. Digital photos of major equipment shall be taken, cataloged by feature ID and submitted as an appendix to the report. The contractor shall research as-built drawings, conduct interviews with Government personnel and other contractors, and inspect the system in order to determine system configuration, materials, age, and condition. The contractor shall compile and evaluate available Government repair and testing records. The contractor shall conduct a safety and hazard analysis of the system. The contractor shall coordinate with the Facility Master Planner to ensure that planned future construction is considered so that system capacity deficiencies can be identified. System models shall be developed to the detail necessary to define system parameters for each line segment (mains and taps), for each line size, and for each facility service point. Any line that is recommended for replacement shall be inspected (excavated if necessary) using a statistically valid sample to confirm its condition unless its replacement it prudent due to a history of failure.
System models shall determine system conditions for normal feeds and emergency feeds/ties/back-feeds based on peak-demand loading. The contractor shall utilize system maps that have been updated during the system survey to develop model diagrams. The model point designations will reflect the plant system component unique identifiers assigned in the system survey so that the system study results can easily be correlated with the system maps and database. Computer programs utilized in performance of system analysis will be approved by the Contracting Officer prior to the start of the study process. All of the studies shall be documented and submitted in report format with appendices as necessary. All model input and output electronic files shall be submitted. Single lines/bus-node diagrams shall be provided with the study reports. The studies shall provide input to reports generated under DID P003 related to system condition and deficiencies. Deficiencies identified by the initial system studies (DID P012) or periodic system studies (DID P009) shall also be noted as specified in the inventory and on the maps. A report shall be prepared documenting each portion of the study effort. The report shall culminate in an assessment of the system condition and a list of deficient system components shall be generated. The Condition Assessment portion of the report shall present summary of the systems configuration, parameters, and descriptions necessary to characterize the system. Component age and observed condition shall be provided, together with an assessment of the remaining useful life that the contractor uses to predict plant unit replacement.

The report shall contain a section that documents system and system component deficiencies, citing specific deficiencies (qualitatively and quantitatively), including proposed solutions. This report shall be referenced and be the basis of the contractors System Expansion, Upgrade, and Renewal Plan

10.2 Study Presentation Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of the system study. The system study shall be submitted in both hard copy and electronic digital format. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets, with separate sections for the study index, study narrative, input data, system parameter results (data), and system maps, digital photos of equipment, and model diagrams. Supporting system maps and system model diagrams shall be provided in full size. The report narrative section shall include a description of the study performance and analysis methodology, key system parameters, and study results. The input data and system parameter results section shall be in tabular form, presented such that the data can easily be correlated to the model diagrams and maps. The system diagrams and maps shall be folded to 8 1/2" x 11" size and placed in the binder(s). Copies of the daily log shall be attached as appendix.

10.3 Submittal Schedule. An initial study for the utility system shall be provided within six months after contract award. The Government will have a period of 30 calendar days to review and comment on the study documents. The Government and the contractor will meet within two weeks of submission of comments to discuss and resolve the comments (if required).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
WORK PLAN	P013 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

This procedure provides requirements for work plan preparation for construction or modification of utilities service.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This procedure shall be implemented for construction or acquisition efforts that result in a net increase to the contractor's plant in service, or any costs to the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS The work plan shall be in accordance with this Data Item Description unless otherwise indicated or modified in the task order or directed by the Contracting Officer.

10.1 Cost. The Contractor shall prepare a cost proposal for preparation of the workplan in accordance with DIN P006, and submit it to the Government for approval. Following negotiation and approval of the work plan preparation final cost proposal, the Contractor shall prepare and submit a work plan to the Contracting Officer for review and approval

10.2 Work Plan Preparation.

a. Preliminary Workplan. The Contractor shall prepare preliminary drawings, sketches, schedules, cost proposals, etc., as required and forward these to the Contracting Officer.
b. Upon approval of the preliminary workplan the Contractor shall complete the work plan package in such detail as required to tie together the plan drawings, standard details, and installation requirements into a comprehensive package that defines the system improvement, repair, or renewal action. This work plan shall provide the detail that allows the Government to conduct an engineering review and perform a detailed cost estimate.

10.2.1 Work Plan Submittal. Each work plan submittal shall be submitted in a three ring binder(s) and be assembled in such a way to allow the Government to conduct a thorough engineering review as well as perform a detailed cost estimate. The material presented in each binder shall be presented in the order defined below. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The work plan submittal shall include individual sections for each of the topics defined below. Each of the sections shall be separated with labeled section tabs.

a. Table of Contents.

b. Scope of Work. A complete copy of the task order scope of work shall be included.

c. Request for Action Report. A copy of the request for action shall be included. See DIN P010 for request for action requirements.

d. Study Results. Include a general synopsis of each study performed (i.e., site survey report, load flow/voltage drop, etc.). The synopsis shall define each of the alternatives evaluated as well as the approved results.

11. DISTRIBUTION STATEMENT

e. Work Plan Description. The level and amount of information in the work plan shall be commensurate with the scope of the project. The work plan package shall include: a narrative of the details of the work to be performed including descriptions of the work items to be removed and/or installed; all assumptions; a list of specific codes and standards to which the action will adhere; all conclusions and recommendations; a list of major equipment and materials to be installed and retired; and a list of manpower to be utilized on the project. All calculations, load or sizing, software input and output sheets, system alternative considerations, equipment supplier selection data, and other material utilized in arriving at the action recommended shall accompany the narrative. Where required, structural and load bearing calculations performed by a registered professional engineer shall be utilized where applicable and submitted with this narration.

f. Method of Work. The work plan shall include, with accompanying description, a schedule of how the work is to be accomplished; in-house, subcontractor, or manufacturer installed. Each Contractor or manufacturer's representative to be used to perform the work defined in the task order shall be listed and described. The list shall also include a brief narrative of the responsibilities and duties of each Contractor and/or factory representative. Provide rationale for why the work is to be performed by the entity proposed (i.e., cost effective, quality, schedule).

g. Material Specifications. The contractor shall submit a bill of materials for the materials he proposes to utilize in construction of projects. The bill of material shall be correlated to the contractor's standard (engineered) details of construction and list the standards (specific standard number or alpha-numeric designation) to which each component adheres (NEMA, UL, ANSI, etc.). The contractor may provide multiple sets (6) of a master component list and set of distribution standard details to the Administrative Contracting Officer for use in review and approval of work plans, as long as the work plan references clearly correlate to the master component list and set of distribution standard details, and the contractor updates the ACO copies whenever he makes changes to his master sets. When using non-standard materials or non-standard configurations, the contractor shall provide the required information with the work plan.

h. Drawing/Sketches. The contractor shall submit plan drawings to show the location and relationship of all equipment and material relative to roads, structures, and other physical attributes at the proposed location. Placement of poles, duct bank, manholes, and pad-mounted equipment shall be referenced to the Government project construction coordinate system or GPS coordinates, whichever is more appropriate. The drawings shall provide clear references to material/equipment schedules and details. Single line drawings shall be submitted when necessary to justify system modifications remote to the project location or show the limits of a proposed outage for construction. When extensive demolition is necessary to accommodate construction of facilities, a phased demolition plan shall be prepared which designates items, equipment, systems, etc., to be removed and indicates the disposition on all removed material, equipment, and debris.

j. Project Schedule. The project schedule shall define the time line of all major activities required to implement the action for the project. Phasing of the action shall be based upon the coordination and approval of facility personnel. The Contractor shall document the phasing required for the entire action. The project schedule shall define all system shutdown and re-activation dates. Also, the Contractor shall define the use of any temporary equipment necessary to perform equipment shutdowns. The project schedule shall be presented utilizing Microsoft Project or compatible software.

k. Installation Alternatives. The Contractor may document any recommended installation alternatives, potential areas of cost reduction, and any recommended changes to the scope of work if the alternatives are documented to economically feasible. The Contractor shall present economical justification for each installation alternative. The Contractor shall present enough information (manufacturer's data and/or drawings/sketches) to properly define each alternative as well as the advantages and disadvantages of each alternative.

l. Final Cost Proposals. Final cost proposals for completion of the action (implementation of the work plan) as well as for the remaining contract elements (as required by the task order) listed as attachments to DIN P006 shall be prepared and submitted under separate cover.

m. Review Comments. All review comments submitted to the Contractor on the work plan shall be resolved in writing to the satisfaction of the Contracting Officer. The back-check final submittal of the major work plan shall include a copy of all the review comments submitted to the Contractor regarding the final submittal of the work plan. Where the work plan is accepted without a back-check, written responses to review comments shall be provided to the Contracting Officer.

10.2.2 Work Plan Review Meeting. Where specified by the task order or requested by the Contracting Officer, the Contractor shall attend a work plan review meeting following the initial work plan submittal if called for in the task order. The review meeting shall be used by the Contractor to resolve any technical comments or issues. The Contracting Officer shall coordinate review meetings.

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
STAFFING PLAN	P014 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

To provide a staffing plan for review by the Government to ensure adequate resources will be available to meet the requirements of the Government.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the minimal requirements for the contractor's staffing plan.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Based on the information contained in the Initial Studies (DID #P012), the Systems Upgrade Plan (DID #P004), and the Operations and Maintenance Plan (DID #P005), a staffing plan shall be developed. This plan shall include, but not be limited to, the following:

- Organizational chart showing the number of persons available and their respective disciplines/positions (clerical, engineering, customer service, etc). Key management personnel, as well as their alternates, should be identified. Discuss each position, the responsibilities of the person holding the position to include specific duties, and the qualifications (education, specific technical training, work related experience, relevant certifications) of the individual. The Government is particularly interested in the qualifications of on-site supervisors, to include those personnel who will interact with the Government for the purposes of planning and daily coordination.
- The offeror should address which team members will perform various tasks and where the personnel and material (inventory) will be located (on-site, off-site, home office, etc.). The offeror should address how cost will be minimized in all areas while providing a high level of quality service. Particularly address how multiple layers of overhead and profit and oversight costs will be minimized on subcontracted work.
- For all definable tasks, including non-recurring or temporary work, as identified by the Initial Studies, Systems Upgrade, and Operations and Maintenance Plans, include an outline of required personnel for these tasks. This outline should show how project, technical, and field-level management would be structured to insure timely and cost effective completion of each task.
- For critical equipment/systems, include procedures for responding to failures and/or emergencies. Include proposed response times, points of contact, and reporting procedures.
- Clearly define roles, responsibilities and lines of authority between corporate, technical, field and subcontractor management levels (if applicable). Identify the person responsible for being the point of contact to the Government and/or the individual facility.
- Any other information that may be pertinent to the success of the project.

10.2 The staffing plan shall be updated and revised annually and submitted to the Government to reflect any changes and/or improvements discovered during the previous year's implementation of work.

10.3 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
PERFORMANCE, MEASUREMENT, AND VERIFICATION PLAN	P015 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The goal of the Contractor's management practices, system design philosophies, and system operation and management procedures should be to provide continuous, quality utility service to each service location, 24 hours per day, every day of the year. The Contractor will develop performance measures for each system similar to the following: 1) Customer complaints received by the Public Works Service Order Desk; 2) Service Response; 3) Service Unavailability; 4) System Quality.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for annual cost proposals to the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 The Contractor will develop performance measures for each system similar to the following: 1) Customer complaints received by the Public Works Service Order Desk; 2) Service Response; 3) Service Unavailability; and 4) System Quality.

10.2 Goals and Strategies: During the first contract year, the Contractor will develop specific goals and strategies to meet those goals for each of its performance measures. This effort may include research of comparable systems. The Contractor may propose additional or alternate performance metrics, provided that such changes are substantiated to indicate that the proposed metrics are industry standard or more appropriate to the specific utility. The proposed performance goals will be submitted for Government review and comment within 14 months after assumption of system responsibilities.

10.3 The Contractor and Government Administrative Contracting Officer will negotiate and establish goals. The agreed-upon goals will become the marks against which performance will be measured for the next Performance Year (see definition below). The performance goals shall be examined annually and revised as required to satisfy the Fort's mission readiness requirements.

10.4 The Contractor shall submit annual performance reports. Each report shall provide data and narrative for actual performance, documenting all occurrences where actual performance deviates from the agreed-upon goals.

10.5 The contractor may be financially penalized for extended outages within its control. Service unavailability must be measured to include the cause and duration of each outage.

10.5 Definitions and Discussion.

10.5.1 Customer Complaints. This measure will assess the rate of customer complaints per 1,000 customers on a Performance Year basis. The number of customers is the average number of points of service during the Performance Year. For the purpose of this contract customer complaints are contacts to the Public Works Service Order Desk by customers for unresolved service issues. Unresolved service issues can include such things as repetitive service disruptions, poor response time, and property damage. The number of customer complaints will be obtained from the Public Works Service Order Desk.

10.5.2 Performance year. Performance year is the Government fiscal year (October 1 through September 30)

10.5.3 Customer. A customer is defined as a user of a utility service at a point of service or premises that would commonly be metered in private industry.

10.5.4 Service Response. This measure will assess the Contractor's service response on a Performance Year basis. Service Response is the period of time that begins at the time that the Contractor receives a call from the Fort's Public Works Service Order Desk and ends when the Contractor's employees arrive at the customer's premises to effect repairs. Data presented should include average response time for both duty and non-duty hours.

10.5.5 Service Unavailability. This service quality measure will assess the duration, cause, and frequency of system service interruption that customers experience on a Performance Year basis. The Contractor(s) will propose methods for reporting service unavailability.

10.5.6 System Quality. This measure will assess the performance in providing required system performance parameters necessary to provide safe, adequate, and dependable service. System parameters (flow, pressure, capacity, etc.) required to be monitored and/or recorded shall be summarized, with deviations from acceptable values noted. The location for each deviation will be listed, with time, date, and system conditions noted.

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Environmental Baseline Study	P016 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires that the contractor perform an Environmental Baseline Study to determine potential liabilities associated with the environmental condition of the proposed property transactions.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Environmental Baseline Study (EBS) and additional environmental information for the Government. Collectively these are the environmental considerations (EC).

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Performance. The Environmental Baseline Study (EBS) shall be in accordance with AR 200-1, "Environmental Protection and Enhancement." ASTM Phase I environmental assessment standards shall also be used (E 1527 is the ASTM Standard Practice for Environmental Site Assessments (ESAs): Phase I ESAs). The Army real property proposed for transfer shall be classified according to standard classifications of environmental condition of property such as ASTM Standard D 5746-98 and the Community Environmental Response and Facilitation Act categories (CEFRA).

(1) summarize the scope of investigation, the property background research, and the environmental investigative work;
(2) evaluate the environmental conditions; and
(3) characterize the risks associated with the property transactions.
(4) reduce uncertainty regarding recognized environmental conditions.
(5) ensure that appropriate studies are completed in conjunction with the preparation of the EC so that the final EBS results in the properties proposed for transfer are categorized suitable to transfer.
(6) Minimum environmental considerations for the EBS.

A. Asset information
B. Physical Description
C. Historical use of the site
D. Historical records and regulatory file research
E. Site hydrology and geology
F. Site reconnaissance
   i. Photographic record
   ii. Property use
   iii. Interviews
   iv. Underground and above ground storage tanks
   v. Chemicals and hazardous substances
   vi. PCBs
   vii. Transformers
   viii. Radon
   ix. Asbestos
   x. Lead
G. Review of Special Resources
   i. Land Use
   ii. Wetlands
   iii. 100 Year Flood Zone
   iv. Coastal Zone
   v. Threatened/Endangered Species

10.2 Study Presentation Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The EBS report shall include photographs of each site and shall reference the data that has been collected in the area as a result of environmental investigations and remedial actions. It shall be written as an engineering document, be well organized, and provide evaluations, conclusions, and recommendations. All applicable data collected as part of the field effort shall be validated and certified. The contractor shall provide two complete copies of the EBS report. The report shall be submitted in both hard copy and electronic digital format. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets, with separate sections for the study index, study narrative, findings, permit data, and system maps, as applicable. The report narrative section shall include a description of the study performance and methodology, key environmental issues, and study results. Data shall be presented such that it can easily be correlated to the maps. Supporting maps shall be provided in full size, folded to 8 1/2" x 11" size, and placed in the binder(s).

Five hard copies of the draft report and an electronic copy in Microsoft Word will be sent to the Government Contracting officer for review. The U.S. Government reserves the right to ask for resubmission of EBS reports to incorporate corrections of errors and/or omissions by the consultant that are identified by the Army. The reports will not be finalized until such time as a letter certifying approval from the Government Contracting Officer is provided. All of the sections described below must be included in the report, in the format as shown. If no information was encountered for a specific issue, it must be noted in the appropriate section. It cannot be deleted from the report.

The report will be called: *"Installation Name"* ENVIRONMENTAL BASELINE STUDY

TRANSMITTAL LETTER
Bound in report as first page or immediately following title page. Include signatures of primary author(s) and reviewer(s). Do not include any conclusions or recommendations.

EXECUTIVE SUMMARY
Include a brief description of the current and former site use(s), and areas of environmental concern (i.e. USTs, ASTs, HM storage areas, septic systems, drywells, natural resources, cultural resources, asbestos, lead, etc.)

TABLE OF CONTENTS
1.0 INTRODUCTION
The introduction must state the name, address and facility ID of the property, the date of the site inspection, the report author(s), and the U.S. Army Requesting Officer.

2.0 SUMMARY OF PREVIOUS ENVIRONMENTAL SITE ASSESSMENTS
If previous reports pertaining to the subject property are in the possession of the consultant or are provided to the consultant by a third party, the information contained in these reports should be summarized. Include discussion of any asbestos or lead paint surveys previously conducted for on-site buildings.

3.0 ASSET INFORMATION
Provide general information on the subject property to include: the property address, point of contact/site owner for the subject property, date of ownership, zoning/land use, county, USGS Quadrangle, Latitude and Longitude, and a legal description of the subject property.

4.0 SITE LOCATION AND PHYSICAL DESCRIPTION
Provide a physical description of the subject property and adjacent properties. This description should include a narrative description, site location maps, land and building areas, and building descriptions. Additionally, provide a color coded identifying the property classifications **(CERFA Property Categories)** if there are multiple classifications

5.0 CURRENT AREA CHARACTERISTICS
Based upon regulatory and municipal record research in accordance with ASTM Standards, and area observations, the EBS report must address/describe the following:

5.1 Adjacent Properties
5.1.1 Names and addresses of all properties that abut the subject property. If the property is abutted by a railroad, street or other right-of-way, identify the property on the immediately opposite side of the feature.
5.1.2 Current uses of/operations on properties that abut the subject property.

5.2 Properties Within 1 mile

- The consultant shall report the results of agency research, as described in Section I0.1.(6).D., relative to the subject property. If no information for the subject property is encountered, the report must state such.
- The presence of any "high risk" properties within 1 mile of the subject property as determined by municipal research and area reconnaissance. (See ASTM E 1528 Transaction Screen Questions 21 and 22 for definition of "high risk" properties.)
- The distance, direction and hydrologic relation to the site should also be provided.
- For those sites where a large number of high-risk properties are present, a summary table may be utilized. Additionally, for investigations where a large number of area properties have USTs, a UST Summary Table may also be utilized.

5.3 SITE HYDROLOGY AND GEOLOGY

The following must be discussed in this section:

5.3.1 Surface Water Characteristics:

5.3.2 Ground Water Characteristics:

6.0 SITE HISTORY

Based on municipal research (e.g. Assessors Office, Clerks Office, Building Department, Planning Department, Fire Marshal, Health Department, Town Historian), a review of historical city directories/atlases, a review of Sanborn Insurance maps, & a review of aerial photographs, the EBS report shall address/describe the following:

- Former owners of the subject property.
- Past uses of/operations on the subject property back to the property's obvious first developed use or back to 1940, whichever is earlier.
- Types/amounts of hazardous materials used, stored, or disposed of at the subject property.
- If USTs were formerly located at the property, document the removal and/or decommissioning activities.
- Any gaps in the historical record should be noted and explained.
- Whether or not any water supply wells and/or septic systems were formerly present on the subject property.

7.0 SITE REGULATORY INFORMATION

8.0 Environmental Management Issues

8.1 UNDERGROUND/ABOVEGROUND STORAGE TANKS
8.2 CHEMICALS/HAZARDOUS SUBSTANCES
8.3 LANDFILLS
8.4 PITS, SUMPS, DRYWALLS, AND CATCHBASINS
8.5 POLYCHLORINATED BIPHENYLS (PCBs)
8.6 RADON
8.7 ASBESTOS-CONTAINING MATERIAL
8.8 LEAD

9.0 REVIEW OF SPECIAL RESOURCES

This section must include, but is not limited to, the following sections:

9.1 LAND USE
9.2 WETLANDS
9.3 100 YEAR FLOOD ZONE
9.4 COASTAL ZONE
9.5 THREATENED/ENDANGERED SPECIES (summarize available information).
9.6 ARCHAEOLOGICAL/HISTORIC SITES (summarize available information).

10.0 CONCLUSIONS

The consultant shall present a summary of the factual findings of the assessment only, which will conclude with an environmental categorization of the property as defined by the CERFA property categories **1-6.**

10.1 CERCLA Certifications
A CERCLA certifications section will be included. This section shall include**:**
All certifications required by CERCLA:
If it is determined that no hazardous substance activity occurred on the property, the report must include the following statement-
"The Army has determined, in accordance with regulations issued by the U.S. Environmental Protection Agency at 40 CFR Part 373, that there is no evidence to indicate that hazardous substance activity took place on the property based on a complete search of agency files."

Note: Hazardous substance activity is defined as the known release or disposal of any hazardous substance or the storage (for one year or more) of an acutely hazardous waste (as listed in 40 CFR 261.30) in quantities of one kilogram(kg) or more; or any hazardous substance in quantities greater than or equal to 1,000 kgs or the hazardous substance's reportable quantity found in 40 CFR 302.4, whichever is greater.

If there was activity involving hazardous substances the following must be included-
The information included in this notice is required under the authority of regulations promulgated under section 120(h) of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or "Superfund") 42 U.S.C. Section 9620(h).
The Army advises that the list provided as attachment to this DID (*list will be provided by the Government*) includes the list of items likely stored or known to be released or disposed of on the property along with a description of the remedial action taken. All remedial action necessary to protect human health and the environment with respect to the hazardous substance activity has been taken. Any additional remedial action found to be necessary shall be conducted by the United States. In the event remedial action is found to be necessary after the date of transfer, the United States shall have access to the property for such remedial purposes.

Beneath the CERCLA certifications, will be a statement which indicates who prepared the document and that they believe the information to be an accurate depiction of the environmental conditions at the subject property. A signature will be required with the name/title/rank of the document "preparer."

10.2 Additional Assurances
There will be additional assurances provided below the CERCLA certifications in the following instances:

1. If there are USTs on-site, there must be an assurance stating that the USTs are in compliance and that the Army will continue to maintain them in compliance with applicable laws as long as the property is owned by the Army.

2. If there are PCB transformers on-site, there must be an assurance that the equipment is in compliance and that the Army will continue to maintain it in compliance with applicable regulations as long as the property is owned by the Army.

3. If there is PCB equipment on-site, there must be an assurance that the equipment is in compliance and that the Army will continue to maintain it in compliance with applicable regulations as long as the property is owned by the Army.

Beneath the additional assurances section, will be the following statement: "The Army has reviewed the findings reported in this EBS and accept this information to be an accurate depiction of the conditions at the subject property." A signature with name/title/rank or grade from the responsible Army representative will be required

**If no additional assurances are required, this statement and signature will be placed below the statement and signature required by the "preparer" in Section 10.1.

10.3 Submittal Schedule. A draft EBS shall be provided within six months after **directed to conduct one**. The Government will have a period of 30 calendar days to review and comment on the documents. The Government and the contractor will meet within two weeks of submission of comments to discuss and resolve the comments (if required).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Environmental Assessment	P017 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires that the contractor perform an Environmental Assessment to determine the extent of environmental impacts of the project and to decide whether or not those impacts are significant.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Environmental Assessment for the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Performance. The Environmental Assessment (EA) shall be in accordance with AR 200-2, "Environmental Effects of Army Actions," and shall include a brief discussion of:

(1) Purpose and need for the proposed action.
(2) Description of the proposed action.
(3) The alternatives considered (always including the "no action" alternative.
(4) Affected environment (baseline conditions).
(5) Environmental consequences of the proposed action and the alternatives.
(6) Listing of agencies and persons consulted.
(7) The conclusion, or finding, on whether the environmental impacts are significant. If the finding is that there are no significant impacts, a FNSI will be published. If the finding is that impacts are potentially significant, the EA should state that a NOI will be published leading to preparation of an EIS.

10.2 Study Presentation Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of the EA. The EA shall be submitted in both hard copy and electronic digital format. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets, with separate sections for the study index, study narrative, findings, permit data, and system maps, as applicable. The report narrative section shall include a description of the study performance and methodology, key environmental issues, and study results. Data shall be presented such that it can easily be correlated to the maps. Supporting maps shall be provided in full size, folded to 8 1/2" x 11" size, and placed in the binder(s).

10.3 Submittal Schedule. A draft EA shall be provided within six months after contract award. The Government will have a period of 30 calendar days to review and comment on the documents. The Government and the contractor will meet within two weeks of submission of comments to discuss and resolve the comments (if required).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
Environmental Impact Statement	P018 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE

The Government requires that the contractor perform an Environmental Impact Statement to provide a full and fair discussion of significant environmental impacts of the proposed action.

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for the Environmental Impact Statement for the Government.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 Performance. The Environmental Impact Statement (EIS) documents and procedures shall be in accordance with AR 200-2, "Environmental Effects of Army Actions." The EIS document shall include:

(1) Cover sheet.
(2) Summary.
(3) Table of Contents.
(4) Purpose of and need for the action.
(5) Alternatives considered, including the proposed action.
(6) Affected environment (baseline conditions).
(7) Environmental and socioeconomic consequences.
(8) List of preparers.
(9) Distribution list.
(10) Index.
(11) Appendices (if any).

The contractor shall also prepare a Notice of Intent (NOI) in accordance with AR 200-2, if required.

10.2 Document Format. All submittals required under this DID will be itemized on an Engineering Form 4025 attached. The contractor shall provide two complete copies of each document. The documents shall be submitted in both hard copy and electronic digital format. The information volume(s) will be provided in three ring binder(s), on 8 ½" x 11" sheets, with separate sections for the study index, study narrative, findings, permit data, and system maps, as applicable. The report narrative section shall include a description of the study performance and methodology, key environmental issues, and study results. Data shall be presented such that it can easily be correlated to the maps. Supporting maps shall be provided in full size, folded to 8 1/2" x 11" size, and placed in the binder(s).

11. DISTRIBUTION STATEMENT

DATA ITEM DESCRIPTION

FORM APPROVAL
OMB NO 0704-0188

1. TITLE	2. IDENTIFICATION NUMBER
MAPPING	P019 - Electric (Amendment 0011)

3. DESCRIPTION / PURPOSE The Contractor shall perform system mapping verification and update. The purpose of the update is to verify/define the system boundaries, composition, and configuration as a basis for formulation of the proposal under Task Order "System Characterization and Work Plan" and performance of Task Order "Utility Services".

4. APPROVAL DATE (YYMMDD)	5. OFFICE OF PRIMARY RESPONSIBILITY	6a. DTIC APPLICABLE	6b. GIDEP APPLICABLE
24-Feb-03			

7. APPLICATION / INTERRELATIONSHIP

This Data Item Description (DID) contains the content and requirements for providing mapping of the utility systems.

8. APPROVAL LIMITATION	9a. APPLICABLE FORMS	9b. AMSC NUMBER

10. PREPARATION INSTRUCTIONS

10.1 A base set of maps shall be developed, starting with the existing electronic map file provided if possible. The maps shall be updated to depict the system to its current extent and configuration. The maps shall show the location of all system components included in the inventory with the component's feature ID shown on the drawings. Map notes shall document line size and material type. The contractor shall conduct a diligent review of available information in order to locate utilities not shown on existing maps. The locations of utilities already shown on the maps provided shall be verified. Utilities not shown on the existing maps but that were discovered during the contractors exercise of due diligence shall be added to the existing maps. The contractor shall interview base personnel, available construction contractor personnel, and conduct field utility location exercises required to update existing utility maps. The contractor should verify underground utility location using standard line location techniques that do not require excavation. Utility features will be located using standard line locator techniques and its location noted relative to the existing map features. Underground utilities shall be mapped to the best of your ability using above ground reference features such as manholes, termination points, and equipment. Underground utilities shall be located at regular intervals to depict general location and changes of direction. No specific location interval is required although changed in line direction shall be determined and shown on the maps. Non-metallic underground utilities that cannot be located using signal generation do not have to be located except as is capable by utilizing above ground reference features but should be included on the maps based upon the best available information (interviews, as-built drawings, etc). Location accuracy need not be any greater than that possible by simple tape measurement of the line's location relative to existing mapped features (road centerlines, buildings, etc) but should be located generally on the revised maps within plus or minus 5 feet. Maps shall document the general location (within plus or minus 5 feet) of all utility distribution and/or collection mains and laterals and main and secondary feeders. No service lines that serve single buildings are required to be mapped. Above ground components within the service line such as gas meters and regulators and pad mount transformers, even those serving single buildings, will be shown on the maps.

10.2 All data provided by the contractor shall be in Microstation (Version 5.0 or later) format.

10.3 The Installation will provide existing maps in electronic media format within thirty (30) days of contract award. Revised and updated maps will be constructed/developed by revising the existing electronic files and shall show planimetric features identifiable on or interpretable from the existing maps, aerial photographs, and from field surveys. Maps shall be drawn to scale equaling those provided as reference.

10.4 All underground utility line work will be plotted onto scale check plots using existing source material such as utility base drawings, existing CADD files, and existing as-built drawings. The contractor will not be responsible for errors, discrepancies, and inconsistencies in the existing source material such as utility base drawings, existing CADD files, and existing as-built drawings but is expected to provide accurate updated information. Field location shall be required for underground utility features in this contract to the extent specified above.

10.5 Map files shall have additional levels over the levels specified in the Tri-Services standard that color code sections of line by date of installation. Additional levels shall show system line segments and system components that are deficient (code deficiency, leaks, degraded condition, etc). Line sections or components that are recommended for replacement shall be denoted in red, that are suspect and may need replacement in the next five years denoted in amber, and that are in good condition denoted in green. Legend notes or notes on the drawing shall be included as necessary to supplement the color scheme to document deficient pipe or line segments.

10.6 The Contractor shall provide the Government all system maps in hard copy and electronic form. The Contractor shall provide up to date system maps in hard copy and electronic form in draft form during development, when complete and annually

thereafter.

10.7 The following information, as a minimum, shall be included on the drawings:

Overhead electrical system
- Poles
- Feature ID
- Location by symbology

- Transformers
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts: (1) capacity; and (2) deficient components by color coding

- Pole mounted switchgear
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

- Voltage regulators
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

- Overhead conductor
- Document number of conductors in each circuit (phases), material, and conductor size of each circuit segment through the use of different line styles and legend notes.
- Date installed (Date shall be denoted on maps by creating a layer that color codes map sections by date installed; confirmed by interview, as-built drawings, or assumed if no confirming data is available).
- Maps shall contain separate overlaying layers: one for primary conductor, and one for secondary conductors.
- Maps shall contain an overlaying layer that depicts the location of system deficiencies (by color-coding) such as deterioration; capacity limited sections, excess voltage drop or other deficiencies. Notes shall be included to document the condition and reasons for its color classification.

Aerial services
- Document location of services, point they contact buildings, the number of conductors in each service, material, and size through the use of either different line styles and legend notes or text labels.
- Maps shall contain an overlaying layer that depicts the location of system deficiencies (by color-coding) such as deterioration; capacity limited sections, excess voltage drop or other deficiencies. Notes shall be included to document the condition and reasons for its color classification.

Capacitors,
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

Streetlights
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

Underground electrical system
Transformer
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts: (1) capacity; and (2) deficient components by color coding

Pad mounted switchgear.
- Feature ID
- Location by symbology

- Contain an overlaying layer that depicts deficient components by color coding

Electric Manholes (number & location)
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

Underground conductor (primary, neutral, secondary)
- Document number of conductors in each circuit (phases), material, and conductor size of each circuit segment through the use of different line styles and legend notes.
- Date installed (Date shall be denoted on maps by creating a layer that color codes map sections by date installed; confirmed by interview, as-built drawings, or assumed if no confirming data is available).
- Maps shall contain separate overlaying layers: one for primary conductor, and one for secondary conductors.
- Maps shall contain an overlaying layer that depicts the location of system deficiencies (by color-coding) such as deterioration; capacity limited sections, excess voltage drop or other deficiencies. Notes shall be included to document the condition and reasons for its color classification.

Underground services (estimated or confirmed by as-built drawings).
- Document location of services, point they contact buildings, the number of conductors in each service, material, and size through the use of either different line styles and legend notes or text labels.
- Maps shall contain an overlaying layer that depicts the location of system deficiencies (by color-coding) such as deterioration; capacity limited sections, excess voltage drop or other deficiencies. Notes shall be included to document the condition and reasons for its color classification.

Electric ductbank, size, number (estimated or confirmed by as-built drawings).
- Document number of conduit in each duct bank, material, and conduit size through the use of different line styles and legend notes.
- Date installed (Date shall be denoted on maps by creating a layer that color codes map sections by date installed; confirmed by interview, as-built drawings, or assumed if no confirming data is available).
- Maps shall contain an overlaying layer that depicts the location of system deficiencies (by color-coding) such as deterioration; capacity limited sections, or other deficiencies. Notes shall be included to document the condition and reasons for its color classification.

Electrical Substations
- Transformers, ,
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

- Switchgear, type, manufacturer, ratings, protective devices.
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

- Voltage regulators,.
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

- Bus.
- Feature ID
- Location by symbology
- Contain an overlaying layer that depicts deficient components by color coding

10.3 All submittals required under this DID will be itemized on an Engineering Form 4025 attached.

11. DISTRIBUTION STATEMENT